CREATIVE
PC-CAM
920 Slim

CREATIVE

PC-CAM 920 Slim

3.0 Megapixels

User's Manual

Contents

Appendix A: Technical Specifications

Important Safety Instructions

Read all safety and operating instructions before using your camera.

Basic Safety Precautions

- The Installation CD included with your camera is designed for PC use only. Playing the Installation CD on a stereo or CD player may cause permanent damage.
- Your camera is a precision electronic device. Do not attempt to service the camera yourself, as opening or removing parts may expose you to dangerous voltage points or other risks. Refer all servicing to qualified servicing personnel.
- Avoid dropping the camera or subjecting it to heavy force.
- Avoid using or placing the camera in the following locations:
  - Damp and dusty places.
  - Sealed vehicles, or areas exposed to direct sunlight.
  - Environments with violent turbulence.
  - Locations with smoke, oil fumes or steams.
  - Locations subject to strong magnetic fields.
  - Places with extreme temperatures, rain or snow.
- Do not open the battery cover when the camera is turned on.
- If the camera comes into contact with water, turn the power off and remove the batteries immediately.

Maintaining Your Camera

- If the lens, Liquid Crystal Display (LCD) screen or flash light surface is dirty, use a lens brush or soft cloth to wipe it clean. Avoid touching the lens with your fingers.
- Avoid scratching the lens, LCD screen or flash light surface, by placing the camera away from solid objects.
- Do not use any detergent or volatile solution on your camera, as this will distort the camera and damage its surface. Use a soft cloth only.

Using Your Camera

- Before using this camera for an important occasion, such as a wedding ceremony or an overseas trip, test it to ensure that it functions properly. Any additional loss caused by the malfunction of this product, such as costs of photography or any loss of benefit generated by the photography, is not the responsibility of Creative Technology Ltd. and no compensation will be provided.

Copyright

- Copyright ownership should be respected at all times, and where applicable, permission should be sought when the use of this camera may violate copyright law.
- Where there is a "No Photography" restriction, this camera should not be used to record any live performance, or be used for exhibition, even for personal purposes.
- Any transfer of pictures or data must be conducted under the constraints of copyright law.

Notes on the LCD Screen

- In the rare event that the LCD screen breaks and the liquid within spills, follow the care instructions below:
    - If the liquid makes contact with the skin: Wipe the skin dry and wash it thoroughly with water.
    - If the liquid gets into the eye, rinse with water immediately for at least 15 minutes. Consult a physician as soon as possible.
    - If the liquid is accidentally swallowed, rinse your mouth with water, drink large amounts of water and induce vomiting. Consult a physician as soon as possible.

Before You Begin

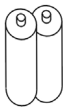## Package Contents

Installation CD   Pouch   Wrist strap   2 x AAA alkaline batteries

USB cable   User's Manual

Minimum System Requirements

When using your camera, use a better computer system for optimal performance.

For PC computers
- Microsoft® Windows® XP, Windows 2000, Windows Millennium Edition (Me) or Windows 98 Second Edition (SE)
- Genuine Intel® Pentium® II 166 MHz or higher processor
- 32 MB RAM
- 10 MB free hard disk space
- USB port (version 1.1 or later)
- CD-ROM/CD-RW or DVD-ROM drive required for software installation

For Macintosh® computers
- Mac® OS X 10.1 or later
- PowerPC® 601 processor or higher
- 64 MB RAM
- 10 MB free hard disk space
- USB port (version 1.1 or later)
- CD-ROM/CD-RW or DVD-ROM drive required for software installation

Note:
- For Macintosh computers, you can only use your camera as a mass storage device.

Front View

(1) Shutter button
(2) Flash light
(3) Lens
(4) Lens cover/Power switch
(5) Strap holder
(6) Battery cover
(7) Memory card slot
(8) Tripod socket
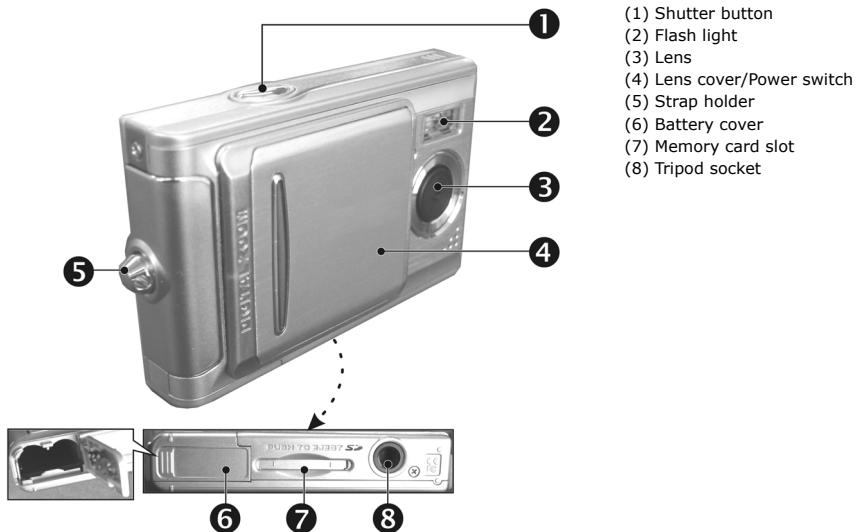
Rear View
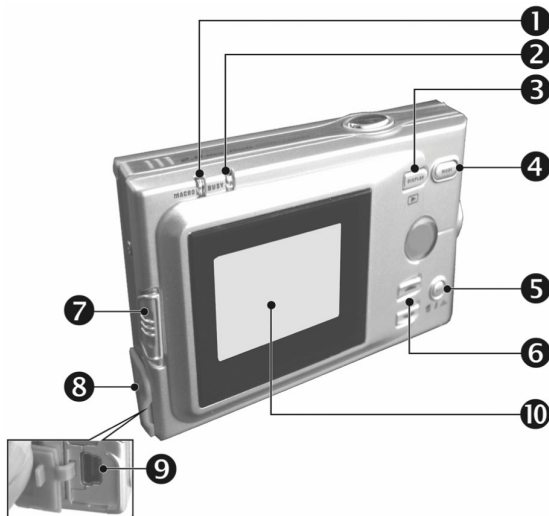
(1) Macro LED
(2) Busy LED
(3) Mode display button
(4) Mode button
(5) Set button
(6) Function keys
(7) Standard/Macro mode switch
(8) USB cover
(9) USB port
(10) LCD screen

About Your Camera's Controls

LEDs

The LEDs located on your camera are described in detail below:

Macro LED   Busy LED

LED	Indication
Macro LED	Lights up green when your camera is in Macro mode.
Busy LED	Lights up red when your camera is recording or when the batteries for the flash lights are charging. Blinks red every 10 seconds when your camera is in normal standby mode.

Mode display button

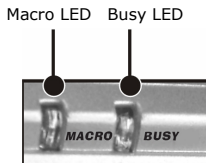To change the LCD screen display, press the **Mode display** button. The LCD screen displays available are:
- Standard Display
- Full Display
- Image Only
- LCD Monitor Off
- Operation Settings Only

Mode button

To select a mode, press and hold the Mode button for at least two seconds. The modes available are:

- Play mode
- Setup mode
- Movie mode
- Record mode
- PC mode

SET button

To select a menu option, press the **Set** button.
In **Record** mode, the **Set** button is also the **Flash** button.

Function keys

Use the **Function** keys to select menu options.

Standard/Macro switch

To select **Standard** or **Macro mode** in **Record** and **Movie** mode, move the **Standard/Macro** switch upwards or downwards as shown below. In **Macro** mode, the **Macro** LED lights up green.

Standard mode
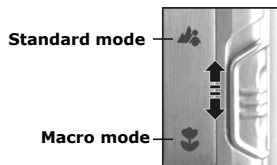
Macro mode

Note:
- In **Macro** mode, your camera's flash is automatically disabled.

LCD screen icons
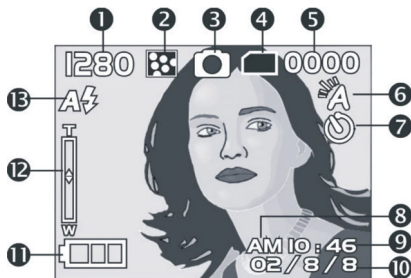
(1)   Image resolution
(2)   Image quality
(3)   Current working mode
(4)   Memory status
(5)   Number of shots
(6)   White balance display
(7)   Self-timer photography
(8)   Morning/afternoon display
(9)   Time display
(10) Date display
(11) Remaining battery power
(12) Zoom indicator
(13) Flash light status

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Shutter button

Your camera has a 2-step shutter function.

To automatically focus on your subject, press and hold the **Shutter** button down halfway. The "[ ]" icon appears on the LCD.

To take a picture, press the **Shutter** button down fully. Your camera beeps.

Lens cover

1. Gently slide the lens cover to the left as shown below. A long beep indicates that the camera is turned on.
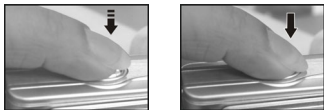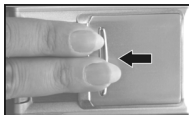

2. To turn off the camera, gently slide the lens cover to the right.
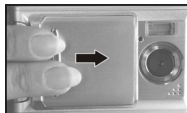
Notes:
- When the camera is turned on, the **Busy** LED blinks red and the last recorded image appears on the LCD screen.
- If there is no activity on the camera for approximately 60 seconds, the power is turned off to save battery power. To use your camera, turn on your camera.
- The following settings are automatically saved before your camera is turned off, unless "Reset Default" is selected:
    o Resolution
    o Image Quality
    o Language
    o White balance
    o EV value
    o Frequency
    o PC mode

2. Installing Your Camera

Step 1: Installing drivers and software

DO NOT connect the camera to your computer yet!

1. Do not connect the camera to your computer before installing the drivers.
   If you accidentally begin installation with your camera connected, the **Add New Hardware Wizard** or **Found New Hardware** dialog box may appear. Click the **Cancel** button and disconnect your camera from your computer.
2. Insert the Installation CD into your CD-ROM drive. Your CD should start automatically. If it does not, follow the steps below:
   i. Start Windows Explorer.
   ii. On the left pane, click **My Computer**.
   iii. Right-click the CD-ROM/DVD-ROM drive icon, and then click **AutoPlay**.
3. Follow the instructions on the screen to complete the driver installation.
4. Repeat steps 2 to 3 to install the software.
5. Restart your computer after the software is installed.

Step 2: Installing hardware

1. Slide the lens cover to the left to turn on your camera.
2. Press and hold the Mode button until the Mode menu appears on the LCD screen.
3. Use the **Function** keys to select the **PC Mode** icon.
4. Press the **Set** button.
5. Use the **Function** keys to select **Mass Storage**.
6. Press the Set button. The **USB Connection** icon flashes on the LCD screen.
7. Open the USB port cover.
8. Connect the provided USB cable to your camera and computer's USB ports as shown below.

9. Windows automatically detects the camera and your camera appears as a removable disk in Windows Explorer.

Step 3: Inserting the batteries

1. Disconnect and turn off your camera.
2. Gently slide open the battery cover.

a.

b.
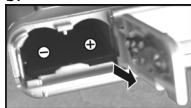
3. Insert two AAA alkaline batteries according to the polarity directions shown on the battery cover.
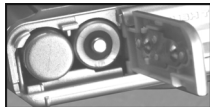
4. Close the battery cover.

Notes:

- If the **remaining battery power** icon on the LCD screen displays one bar, your camera's flash light is disabled. For more information on your LCD screen's icons, see "LCD screen icons" on page 9.
- If your batteries are depleted, the **remaining battery power** icon turns red and your camera is turned off.
- Your camera's date and time is stored for approximately three minutes when the batteries are removed. If you remove the batteries for longer than three minutes, you will have to reprogram the date and time. For more information, see "To set the date and time" on page 22.

Step 4: Setting the date and time

1. Press and hold the Mode button until the Mode menu appears on the LCD screen.
2. Use the **Function** keys to select the **Setup Mode** icon.
3. Press the **Set** button. The following LCD screen appears.|

4. Use the ▲ **Function** key to select **SYSTEM OPT**.
5. Use the ▼ **Function** key to select **Date/Time**.
6. Press the **Set** button. The following LCD screen appears.

7. Use the **Function** keys to adjust the date, and then press the **Mode display** button. The following LCD screen appears.

8. Use the **Function** keys to adjust the time, and then press the **Mode display** button.
9. Press the **Set** button.

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Step 5: Inserting a memory card (optional)

1. Make sure that your camera is turned off.
2. Insert a memory card (available separately) into your camera's memory card slot.

Notes:
- To remove the memory card, gently push in the memory card. It should pop out automatically.
- The memory card slot is located next to the battery compartment.
- Your camera's internal memory is 16 MB. If a memory card is inserted into your camera, all photos and videos are stored to the memory card.
- Your camera can only accept SD or MMC memory cards, with a capacity of 4 to 512 MB.

- To avoid permanent damage, do not remove the memory card when your camera is turned on.
- Do not force the memory card into the memory card slot. If it does not fit properly, gently remove it and try again.
- If your camera does not detect the memory card, gently wipe the memory card's metal interface with a soft cloth and try inserting it again.
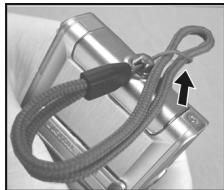
Step 6: Attaching the neck strap (optional)

1. Insert the thin end of the neck strap into your camera's strap holder.

2. Make a loop with the other end of the neck strap.

3. Pull the neck strap tightly.

Play Mode

In **Play** mode, you can delete photos, view photos as a slideshow and print photos. In **Play** mode, the icons below are displayed on your LCD.

(1) Current photo/Number of photos taken
(2) Remaining battery power

To enter Play mode

1. Press and hold the Mode button until the Mode menu appears on the LCD screen.
2. Use the **Function** keys to select the **Play Mode** icon.
3. Press the **Set** button to enter **Play** mode.

To delete a photo

1. In **Play** mode, use the **Function** keys to go to the photo that you want to delete.
2. Press the **Set** button. The following LCD screen appears.

3. Use the **Function** key to select **Delete One** and press the **Set** button. The following LCD screen appears.

4. Use the **Function** keys to select **OK**.
5. Press the **Set** button.

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To delete all photos

1. In **Play** mode, press the **Set** button. The following LCD screen appears.

2. Use the ▼ **Function** key to select **Delete All** and press the **Set** button. The following LCD screen appears.

3. Use the **Function** keys to select **OK** and press the **Set** button. All photos in your camera are deleted.

To view all photos as a slideshow

1. In **Play** mode, press the **Set** button. The following LCD screen appears.

2. Use the ▲ **Function** key to select **Auto Play** and press the **Set** button. The following LCD screen appears.

3. Press the **Set** button. Your photos are displayed as a slideshow.
4. To exit the slideshow, press the **Set** button.

To print photos using Digital Print Order Format (DPOF) Settings

With DPOF, you can print all or one photo, with or without the date.

Note:
• If your memory card is not inserted into your camera, DPOF is disabled, even if there are photos in your camera's internal memory.

To print a photo

1. Make sure that your camera is connected to your computer's USB port and that your printer is functioning properly.
2. In **Play** mode, use the **Function** keys to go to the photo that you want to print.
3. Press the **Set** button.
4. Press the ▲ **Function** key. The following LCD screen appears.

5. If you want the date to appear in your printed photo, press the ▼ **Function** key to select **Date On/Off**, and then press the **Set** button. The following LCD screen appears.

6. Use the **Function** keys to select **On** and if you do not want the date to appear on your printed photo, select **Off**.
7. Press the **Set** button.
8. Use the ▼ **Function** key to select **Select One**. The following LCD screen appears.

9. Press the **Set** button. The following LCD screen appears.

10. Press any **Function** key to specify the number of copies, and then press the **Set** button.

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To print all photos

1. Make sure that your camera is connected to your computer's USB port and that your printer is functioning properly.
2. In **Play** mode, press the **Set** button. The following LCD screen appears.

3. Press the ▲ **Function** key. The following LCD screen appears.

4. If you want the date to appear in your printed photo, press the ▼ **Function** key to select **Date On/Off**, and then press the **Set** button. The following LCD screen appears.

5. Use the **Function** keys to select **On** and if you do not want the date to appear on your printed photo, select **Off**.
6. Press the **Set** button.
7. Use the ▼ **Function** key to select **Select All/None**. The following LCD screen appears.

8. Use the **Function** keys to select **All**, and then press the **Set** button. All photos are printed.

Setup Mode

In **Setup** mode, you can adjust your camera's image resolution, white balance, exposure value, language, date, time and light frequency. You can also use **Setup** mode to format your memory card or restore the default settings.

To enter Setup mode

1. Press and hold the Mode button until the Mode menu appears on the LCD screen.
2. Use the **Function** keys to select the **Setup Mode** icon.
3. Press the **Set** button. The following LCD screen appears.

To set the image resolution

1. In **Setup** mode, use the ▼ **Function** key to select **Resolution**.
2. Press the **Set** button. The following LCD screen appears.

3. Use the **Function** keys to select the image resolution that you want, and then press the **Set** button.

To select the image quality

1. In **Setup** mode, use the ▼ **Function** key to select **Quality**.
2. Press the **Set** button. The following LCD screen appears.

3. Use the **Function** keys to select the image quality that you want, and then press the **Set** button.

To adjust the white balance

1. In **Setup** mode, use the ![down arrow] **Function** key to select **White Balance**.
2. Press the **Set** button. The following LCD screen appears.

3. Use the **Function** keys to select the white balance that you want.
   - Select **Auto** to automatically adjust the white balance when taking a photo.
   - Select **Sunny** if you are taking a photo in direct sunlight.
   - Select **Tungsten** if you are taking a photo in overcast conditions.
   - Select **Fluorescent** if you are taking a photo in fluorescent lighting.
4. Press the **Set** button.

To adjust the exposure value

1. In **Setup** mode, use the ![down arrow] **Function** key to select **Exposure Value**.
2. Press the **Set** button. The following LCD screen appears.

3. Use the **Function** keys to increase or decrease the exposure value.
4. Press the **Set** button.

To change the default language

1. In **Setup** mode, use the ![up arrow] **Function** key to select **SYSTEM OPT**.
2. Use the ![down arrow] **Function** key to select **Language**.
3. Press the **Set** button. The following LCD screen appears.

4. Use the **Function** keys to select the language that you want, and then press the **Set** button.

To set the date and time

1. In **Setup** mode, use the ▲ **Function** key to select **SYSTEM OPT**.
2. Use the ▼ **Function** key to select **Date/Time**.
3. Press the **Set** button. The following LCD screen appears.

4. Use the **Function** keys to adjust the date, and then press the **Mode display** button. The following LCD screen appears.

5. Use the **Function** keys to adjust the time, and then press the **Mode display** button.
6. Press the **Set** button.

To adjust the light frequency

1. In **Setup** mode, use the ▲ **Function** key to select **SYSTEM OPT**.
2. Use the ▼ **Function** key to select **Frequency**.
3. Press the **Set** button. The following screenshot appears.

4. Use the **Function** keys to select the frequency that you want and press the **Set** button.

To format your memory card

1. In **Setup** mode, use the ▲ **Function** key to select **OPTION**.
2. Use the ▼ **Function** key to select **Format**.
3. Press the **Set** button. The following screenshot appears.

4. Use the **Function** keys to select **OK.**
5. Press the **Set** button.
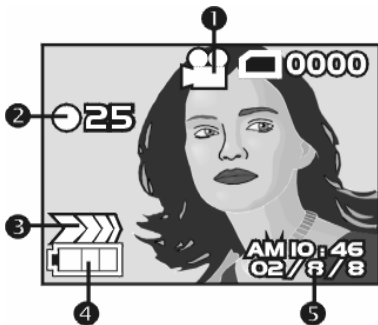
To restore the default settings

1. In **Setup** mode, use the ▲ **Function** key to select **OPTION**.
2. Use the ▼ **Function** key to select **Default**.
3. Press the **Set** button. The following screenshot appears.

4. Use the **Function** keys to select **OK**.
5. Press the **Set** button.

Movie Mode

Use **Movie** mode to record a video. In **Movie** mode, the icons below are displayed on your LCD.

(1) Movie Mode icon
(2) Recorded video (seconds)
(3) Recording status
(4) Remaining battery power
(5) Date display

To record a video

1. Press and hold the **Mode** button until the Mode menu appears on the LCD screen.
2. Use the **Function** keys to select the **Movie Mode** icon.
3. Press the **Set** button.
4. Press the **Shutter** button down fully to start recording a video.
5. To stop the recording, release the **Shutter** button.

Notes:
- This camera does not record audio.
- If a "Memory full" message appears on the LCD screen, the recording is stopped.
- The maximum recording time depends on the amount of available free space.
- When recording a video, the digital zoom function is automatically disabled.

Record Mode

Use **Record** mode to take photos. In **Record** mode, the icons below are displayed on your LCD.

(1) Image resolution
(2) Image quality
(3) Current working mode
(4) Memory status
(5) Number of shots
(6) White balance display
(7) Self-timer photography
(8) Morning/afternoon display
(9) Time display
(10) Date display

(11) Remaining battery power
(12) Zoom indicator
(13) Flash light status

To take a photo

1. Press and hold the **Mode** button until the Mode menu appears on the LCD screen.
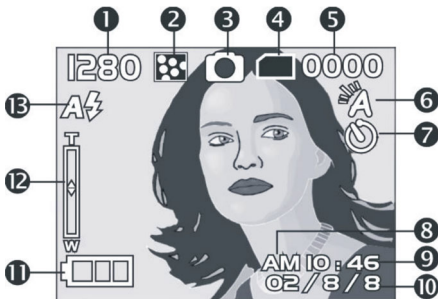2. Use the **Function** keys to select the **Record Mode** icon.
3. Press the **Shutter** button down fully to take a photo.

PC Mode

Use **PC** mode to switch between using your camera as a removable hard disk drive (Mass Storage Device) or webcam.

To use your camera as a removable hard disk drive

1. Press and hold the **Mode** button until the Mode menu appears on the LCD screen.
2. Use the **Function** keys to select the **PC mode** icon.
3. Press the **Set** button. The following LCD screen appears.

4. Select **MASS STORAGE**, and then press the **Set** button. The **USB Connection** icon flashes on the LCD screen.
5. Connect your camera to your computer's USB port.
   You can start using your camera as a removable hard disk drive.

Note:
- Make sure that you have inserted a memory card into your camera before selecting **MASS STORAGE** and if you intend to transfer photos from your memory card to your computer.

To use your camera as a webcam

1. Press and hold the **Mode** button until the Mode menu appears on the LCD screen.
2. Use the **Function** keys to select the **PC mode** icon.
3. Press the **Set** button. The following LCD screen appears.

4. Select **PC CAMERA**, and then press the Set button. The **USB Connection** icon flashes on the LCD screen. Connect your camera to your computer's USB port.
   You can start using your camera as a webcam.

Note:
For Macintosh computers, you can only use your camera as a mass storage device.

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A. Technical Specifications

Size
- 93 mm (L) x 56 mm (H) x 38 mm (W)

Weight
- Approximately 120 g (without the batteries)

Power
- 2 x AAA alkaline batteries

Lens
- F=8.79 mm

Sensor
- 1/2" CMOS with 2.0 mega pixels

Focus range
- F/2.8

Sensitivity
- ISO 100

White balance
- Auto
- Sunny
- Tungsten
- Fluorescent

Shutter
- Electrical

Shutter speed
- 1/4 seconds ~ 1/2000 seconds

Storage
- 16 MB Internal Flash Memory
- SD or MMC card slot (supports 4 to 512 MB)

File format
- Still image - JPEG
- Video - Motion JPEG

Picture resolution
- 2048 x 1536 pixels with software interpolation
- 1600 x 1200 pixels
- 1280 x 960 pixels
- 800 x 600 pixels

Digital zoom
- 10-step, 4x digital zoom

Focal range
- Standard: 1.2 m ~ infinity
- Macro: 15 cm ~ 20 cm

Self-timer
- 10 seconds delay

PC-CAM mode
- QVGA (320 x 240 pixels)
- VGA (640 x 480 pixels)

Flash mode
- Auto
- Off

Port compatibility
- Universal Serial Bus (USB) 1.1

Videos
- Records videos for 60 seconds continuously, with QVGA (320 x 240 pixels) format
- 16 MB internal memory

Recordable image numbers

		800 x 600	1280 x 960	1600 x 1200	2048 x 1536
16	Fine	60	25	15	10
MB	Normal	130	60	35	25